

Section 1. Product and Company Identification

Product Name: PPR-220 Part A
Supplier: CSNRI | 621 Lockhaven Drive. Houston, TX 77073 | +1 281.590.8491
Emergency Phone Number: 800.424.9300 (CHEMTREC)
 +1 703.741.5970 (Outside the US)
Product Description: Epoxy resin
Product Use: Intended to repair pipes
Chemical Name or Synonym: N/A

Section 2. Hazards Identification

Classification of the substance or mixture:

Skin corrosion/irritation – Category 2

Skin sensitization - Category 1B

Serious eye damage/eye irritation – Category 2A

Hazardous to the aquatic environment – Long Term (Chronic) Hazard – Category 2

Label Elements:



Hazard Statements:

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H411 Toxic to aquatic life with long lasting effects

Signal Word: Warning

Precautionary Statement:

P264 Wash thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P302+P352 IF ON SKIN: Wash with plenty water.

P333+P313 If skin irritation or rash occurs: Get medical advice

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P312 Call a POISON CENTER if you feel unwell.

Section 3. Composition/ Information on Ingredients

Chemical Name	CAS-No	Weight %
Phenol-formaldehyde polymer, glycidyl ether	28064-14-4	40 – 60
Natural wollastonite	13983-17-0	20 – 40
Glycidoxypropyltrimethoxysilane	2530-83-8	0.5 – 5



Section 4. First Aid Measures

First Aid Measures for Accidental:

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Ingestion: Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Most important symptoms/effects, acute and delayed: Itching. Rashes. Eye irritation/reactions. Skin irritation.

Indication of immediate medical attention and special treatment needed: May cause sensitization of susceptible persons. Treat symptomatically.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, foam, dry chemical, water fog.

Unsuitable Extinguishing Media: Do not use high volume water jet on the fire as this may spread the area of the fire.

Special Protective Equipment and Precautions for Fire-fighters: Use personal protective equipment. Wear self contained breathing apparatus for firefighting if necessary with a full face-piece operated in positive pressure mode to protect against potential harmful and/or irritating fumes. Use water to keep fire exposed containers cool.

Specific Hazards Arising from the Chemical (Under Fire Conditions): Combustion products may include, but are not limited to: phenols, carbon monoxide, carbon dioxide.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental Precautions: Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas.

Methods and Materials for Containment and Cleaning Up: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dike and absorb with inert absorbent material (e.g., sand) and collect in a suitable, closed and labeled container. Wash the spill area with water and detergent. Dispose of in accordance with applicable local and federal environmental control regulations.

Section 7. Handling and Storage

Precautions for Safe Handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.



Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse empty container.

Conditions for safe storage including any incompatibilities: Store between the following temperatures: 2 to 40°C (35.6 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store in tightly closed containers to prevent moisture absorption and loss of volatiles. Store away from heat and open flame.

Section 8. Exposure Controls / Personal Protection

Control Parameters (Exposure Limits):

Component	Exposure Limits		
	ACGIH-TLV	NIOSH	OSHA-PELs
Natural wollastonite	10 mg/m ³ (TWA) (inhalable) 3 mg/m ³ (Respirable)	-	15 mg/m ³ (inhalable) 5 mg/m ³ (Respirable)
Trade Secret	TWA: 10mg/cu.m	TWA: 5mg/cu.m (respirable) TWA: 5mg/cu.m (total dust)	TWA: 0.5 mg/cu.m TWA: 5 mg/cu.m (respirable) TWA: 15 mg/cu.m (total dust)

Appropriate Engineering Controls: Ventilation must be adequate for most operations.

Personal Protective Equipment:

Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eye / Face Protection: Wear safety glasses with side shields or chemical splash goggles when exposure is more likely.

Skin Protection: Wear chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.

Additional protective measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and Chemical Properties

Physical State:	Paste
Colour:	Blue
Odour:	Mild
Melting Point/ Freezing Point:	No data available
Boiling point:	No data available
Flammability (solid, gas):	No data available
Lower and Upper Explosion limits/	



Flammability Limits:	No data available
Flash Point:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
pH:	No data available
Kinematic Viscosity:	220,000 ± 20,000 cPs
Solubility:	No data available
Evaporation rate (ether=1):	No data available
Flammability Limits in Air:	No data available
Solubility in other solvents:	No data available
Partition coefficient (n-octanol/water):	No data available
Vapour Pressure:	No data available
Density and/or Relative Density:	No data available
Relative Vapour Density:	No data available
Specific Gravity:	1.7
Particle Characteristics:	No data available

Section 10. Stability and Reactivity

Reactivity: Stable

Chemical Stability: Stable under standard normal conditions.

Possibility of Hazardous reactions: None under normal processing. Hazardous polymerization will not occur by itself.

Conditions to Avoid: To avoid thermal decomposition, do not overheat. Incompatible products.

Incompatible Materials / Chemicals: Keep uncured material away from strong acids, strong bases, oxidizing agents. Reacts with amines.

Hazardous Decomposition Products: Uncontrolled exothermic reaction of resin releases carbon monoxide, carbon dioxide, phenols.

Section 11. Toxicological Information

Information in the likely route of exposure:

Potential Acute Health Effects:

Inhalation: May cause irritation of the respiratory tract and mucous membrane.

Ingestion: May cause irritation

Skin contact: Irritating to skin. May cause sensitization.

Eye contact: Irritating to eyes.

Symptoms related to the physical, chemical and toxicological characteristics:

General: Contains material that may cause target organ damage, based on animal data. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels



Target organs: Contains material which may cause damage to the following organs: kidneys, liver.

Mutagenicity: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Reproductive Toxicity: No known significant effects or critical hazards.

Tetratogenicity: No known significant effects or critical hazards.

Specific Target Organ Toxicity - single exposure (STOT-se): No data available

Specific Target Organ Toxicity - repeated exposure (STOT-re): No data available

Over-exposure signs / symptoms: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Delayed and immediate effects and also chronic effects from short and long-term exposure:

Short term exposure: No specific data.

Long term exposure: No specific data

Numerical measures of toxicity:

Acute toxicity:

Product	Endpoint	Species	Results	Exposure
Phenol-formaldehyde polymer, glycidyl ether	LD50 Oral	Rat	>2000 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	

Section 12. Ecological Information

Ecotoxicity Effects:

Aquatic ecotoxicity:

Product	Endpoint	Species	Results
Phenol-formaldehyde polymer, glycidyl ether	Acute EC50	Daphnia magna	3.5 mg/L
	Acute LC50	Leuciscus idus	5.7 mg/L
Final Product	Acute EC 50	Crustacea	4.5 mg/L
	Acute LC50	Fish	7.6 mg/L

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Other adverse effects: No information available.

Section 13. Disposal Considerations

Waste treatment methods: Do not dump to ground, sewers or watercourses. Dispose of at a licensed waste disposal facility utilizing methods that are in compliance with all applicable federal, state and local laws regulations. Waste characterization and compliance with applicable laws are the responsibility solely of the waste generator.

Uncleaned packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information



DOT: Not Regulated

IATA

UN/ID No.: UN 3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Phenol-formaldehyde polymer, glycidyl ether)

Class: 9

Packing group: III

Marine pollutant: Yes

IMDG

UN/ID No.: UN 3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Phenol-formaldehyde polymer, glycidyl ether)

Class: 9

Packing group: III

Labels: 9

EmS Code: F-A, S-F

Marine pollutant: Yes

Section 15. Regulatory Information

SARA Title III Section 313 (40CFR372): No reportable components

CERCLA Status (40CFR302): No reportable quantity components

OSHA/NTP/IARC Carcinogen status: None of the ingredients listed.

TSCA Status: All components are listed on TSCA Inventory or otherwise comply with TSCA requirements.

NJ Right to know: None of the ingredients listed

Section 16. Other Information

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

NIOSH – National Institute for Occupational Safety and Health

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